

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 0000055330	FOR FURTHER ACTION	
	See item 4 below	
International application No. PCT/EP2005/001138	International filing date (<i>day/month/year</i>) 04 February 2005 (04.02.2005)	Priority date (<i>day/month/year</i>) 10 February 2004 (10.02.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant BASF Aktiengesellschaft		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 7 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input checked="" type="checkbox"/>	Box No. VIII	Certain observations on the international application

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

	Date of issuance of this report 04 October 2006 (04.10.2006)
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Agnes Wittmann-Regis
Facsimile No. +41 22 338 82 70	e-mail: pt06@wipo.int

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

PCT

TRANSLATION

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

<p>Applicant's or agent's file reference 0000055330</p>		<p>Date of mailing (day/month/year) See form PCT/ISA/210</p>
<p>International application No. PCT/EP2005/001138</p>		<p>International filing date (day/month/year) 04.02.2005</p>
<p>Priority date (day/month/year) 10.02.2004</p>		
<p>International Patent Classification (IPC) or both national classification and IPC C07C45/65, C07C47/21</p>		
<p>Applicant BASF Aktiengesellschaft</p>		

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
- Box No. II Priority
- Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- Box No. IV Lack of unity of invention
- Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- Box No. VI Certain documents cited
- Box No. VII Certain defects in the international application
- Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/EP Facsimile No.	Authorized officer Telephone No.
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

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Box No. I	Basis of this opinion
1.	With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. <input type="checkbox"/> This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material <input type="checkbox"/> a sequence listing <input type="checkbox"/> table(s) related to the sequence listing b. format of material <input type="checkbox"/> in written format <input type="checkbox"/> in computer readable form c. time of filing/furnishing <input type="checkbox"/> contained in the international application as filed. <input type="checkbox"/> filed together with the international application in computer readable form. <input type="checkbox"/> furnished subsequently to this Authority for the purposes of search.
3.	<input checked="" type="checkbox"/> In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement																			
<p>1. Statement</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Novelty (N)</td> <td style="width: 60%;">Claims <u>1-8</u></td> <td style="width: 20%;">YES</td> </tr> <tr> <td>Claims</td> <td>_____</td> <td>NO</td> </tr> <tr> <td>Inventive step (IS)</td> <td>Claims <u>1-8</u></td> <td>YES</td> </tr> <tr> <td>Claims</td> <td>_____</td> <td>NO</td> </tr> <tr> <td>Industrial applicability (IA)</td> <td>Claims <u>1-8</u></td> <td>YES</td> </tr> <tr> <td>Claims</td> <td>_____</td> <td>NO</td> </tr> </table> <p>2. Citations and explanations:</p> <p>1). The application relates to a process for preparing 2,7-dimethylocta-2,4,6-trienedial (I) in four steps:</p> <ul style="list-style-type: none"> a) double enol ether condensation of a butenedial bisacetal with an enol ether, b) hydrolysis of the acetal groups of the 2,7-dimethyl-1,1,3,6,8,8-hexaalkoxyocta-4-ene (IV) formed in (a) to the corresponding 2,7-dimethyl-3,6-dialkoxyoctenedial (V), c) eliminating the alkoxy groups in (V) with aqueous base to give 2,7-dimethylocta-2,4,6-trienedial (I), and d) crystallization. <p>2). The present process differs from D1 in that step a) is carried out in the presence of a water-immiscible organic solvent, and in that the conversion of (V) to (I) is effected under basic conditions and separately from (acidic) hydrolysis of (IV) to (V). The subject matter of the present claims is therefore novel.</p> <p>3). It is an object of the present application to improve the yield of processes of the D1 type. This object is achieved by the presence of water-immiscible solvent in step (i) and the two-stage acid-base conversion of (IV)</p>			Novelty (N)	Claims <u>1-8</u>	YES	Claims	_____	NO	Inventive step (IS)	Claims <u>1-8</u>	YES	Claims	_____	NO	Industrial applicability (IA)	Claims <u>1-8</u>	YES	Claims	_____	NO
Novelty (N)	Claims <u>1-8</u>	YES																		
Claims	_____	NO																		
Inventive step (IS)	Claims <u>1-8</u>	YES																		
Claims	_____	NO																		
Industrial applicability (IA)	Claims <u>1-8</u>	YES																		
Claims	_____	NO																		

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

to (I). The subject matter of the claims therefore involves an inventive step.

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Formula (V) should be checked.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/EP2005/001138

Supplemental Box

In case the space in any of the preceding boxes is not sufficient,

Continuation of:

D1: CH 321 106 A (F. HOFFMANN-LA ROCHE & CO.
AKTIENGESELLSCHAFT) 30 April 1957 (1957-04-30)